## WHAT IS CLAIMED IS:

1. A glass for substrate, which consists, as represented by mass percentage, essentially of:

SiO2 40 to 59%,  $Al_2O_3$ 5 to 20%, 5 to 8%,  $B_2O_3$ to 10%, Mg0 0 to 12%, CaO 2 to 20%, SrO 0 to 2 k 10 BaO 0 to 4%) ZnO 0 to 2%, Li<sub>2</sub>O Na<sub>2</sub>O 0 to 10%,  $K_2O$ 0 to 12%, 15 0 to 10%, and  $ZrO_2$ 0 to 5%,

wherein MgO+CaO+SrO+BaO is at  $\setminus$  least 15%.

- 2. The glass for substrate according to Claim 1, wherein  $Al_2O_3+TiO_2$  is at least 11%.
- 3. The glass for substrate according to Claim 1, wherein  $BaO+Li_2O+Na_2O+K_2O$  is at most 14%.
  - 4. The glass for substrate according to Claim 2, wherein BaO+Li<sub>2</sub>O+Na<sub>2</sub>O+K<sub>2</sub>O is at most 14%.

The glass for substrate according to Claim 4,

wherein Li<sub>2</sub>O+ZnO is at most 2%.

6. The glass for substrate according to Claim 1, wherein  $\text{Li}_2\text{O}+\text{ZnO}$  is at most 2%.

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The glass for substrate according to Claim 1, which has an average linear expansion coefficient of at least  $70\times10^{-7}$ /°C within range of from 50 to 350°C.

8. The glass for substrate according to Claim 1, which has a glass transition temperature of at least 600°C.

A glass substrate made of the glass for substrate as defined in Claim 1, wherein the number of attachments having sizes of at least 10 µm present on the surface of the glass substrate held in a steam atmosphere at 120°C under 2 atm for 20 hours, is not more than 1/cm2, and the number of attachments having sizes of from 1 µm to less than 10  $\mu$ m so present, is not more than  $10^5/\text{cm}^2$ . 10. A glass substrate made of the glass for substrate as defined in Claim 2, wherein the number of attachments having sizes of at  $\lambda$ east 10  $\mu$ m present on the surface of the glass substrate held in a steam atmosphere at 120°C under 2 atm for 20 hours, is not more than 1/cm2, and the number of attachments having sizes of from 1 µm to less

11. A glass substrate made of the glass for substrate as defined in Claim 3, wherein the number of attachments having sizes of at least 10 µm present on the surface of the glass substrate held in a steam atmosphere at 120°C under 2 atm for 20 hours, is not more than 1/cm2, and the number of attachments having sizes of from 1 µm to less than 10  $\mu$ m so present, is not have than  $10^5/\text{cm}^2$ .

than 10  $\mu$ m so present, is not more than  $10^5/\text{cm}^2$ .

12. A glass substrate made of the glass for substrate as

defined in Claim 4, wherein the number of attachments having sizes of at least 10  $\mu m$  present on the surface of the glass substrate held in a steam atmosphere at 120°C under 2 atm for 20 hours is not more than 1/cm², and the number of attachments having sizes of from 1  $\mu m$  to less than 10  $\mu m$  so present, is not more than  $10^5/cm^2$ .

13 A glass substrate made of the glass for substrate as defined in Claim 5, wherein the number of attachments having sizes of at least 10 µm present on the surface of the glass substrate held in a steam atmosphere at 120°C under 2 atm for 20 hours, is not more than 1/cm2, and the number of attachments having sizes of from 1 µm to less than 10  $\mu$ m so present, is not more than  $10^5/\text{cm}^2$ . 14. A glass substrate made of the glass for substrate as defined in Claim 7, wherein the number of attachments having sizes of at least 10 µm present on the surface of the glass substrate held in a steam atmosphere at 120°C under 2 atm for 20 hours, is not more than 1/cm2, and the number of attachments having sizes of from 1 µm to less than 10  $\mu m$  so present, is not more than  $10^5/cm^2$ . 15. A glass substrate made of the glass for substrate as defined in Claim 8, wherein the number of attachments having sizes of at least 10 µm present on the surface of the glass substrate held in a steam atmosphere at  $120^{\circ}\text{C}$ under 2 atm for 20 hours, is not more than 1/cm<sup>2</sup>, and the number of attachments having sizes of from 1  $\mu m$  to less than 10  $\mu$ m so present, is not more than  $10^5/\text{cm}^2$ .

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